

GUIDE

for naming
of the series



New naming
of series

Seal

Size of inlet/
Size of outlet

Type of inlet/
Type of outlet

Nominal
valve size

Type of lifting
mechanism

Medium

Version

Product key

Product key

851 tbGFO – 20 – m/f – 20/32 PTFE

With the help of our well-proven product key the variety of our Goetze series is easy to understand as it includes all relevant specifications. For example you are able to identify immediately the valve version, the inlet and outlet connection sizes, the primary sealing or for what state of aggregation of the medium the valve is suitable.

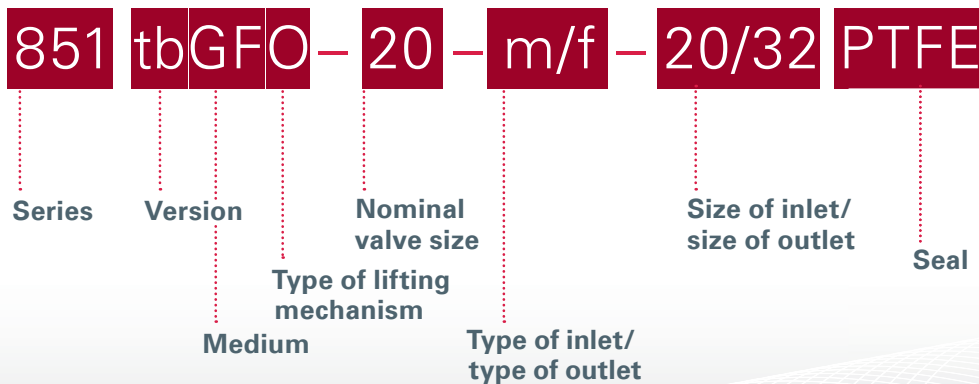
For further questions or queries please call us on +49 (0) 71 41.4 88 94 60

Wherever valves made by Goetze KG are in use, the highest degree of safety is of paramount importance.

We have the solution which meets your requirements: Take us at our word.

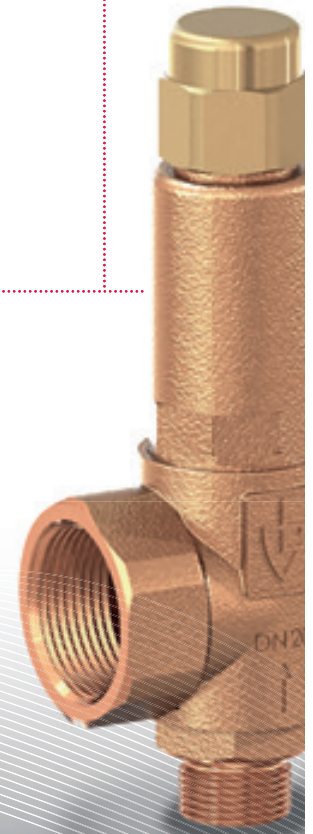
How to order the correct valve:

Example



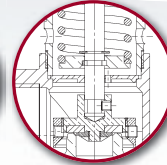
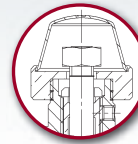
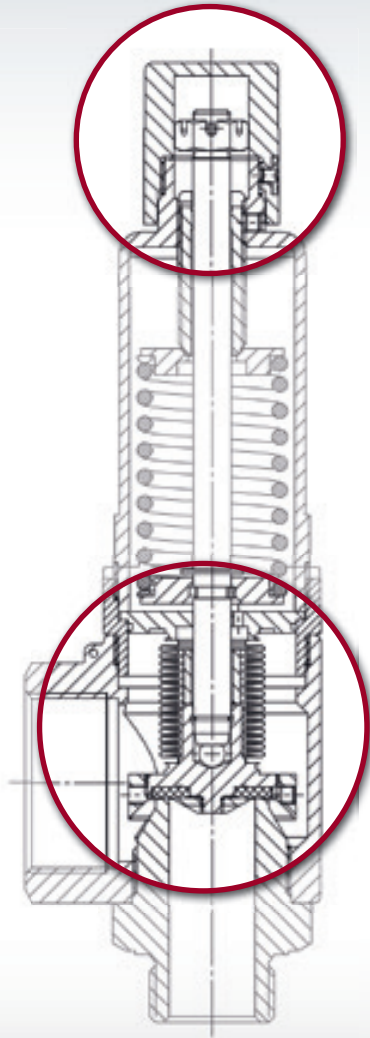
This is what the valve looks like for this example:

851 = TÜV/CE Safety valve made of gunmetal
 tb = gastight version with bellows
 GF = for gaseous and liquid media
 O = without lifting lever
 20 = DN 20
 m/f = male thread BSP-P, Female thread BSP-P
 20/32 = inlet DN 20, outlet DN 32
 PTFE = polytetrafluoroethylene seal

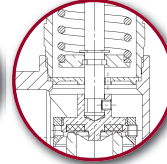
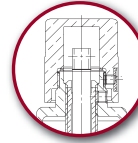


Version

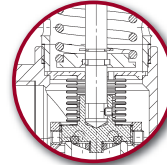
851 **tb** GFO – 20 – m/f – 20/32 PTFE



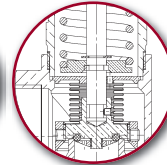
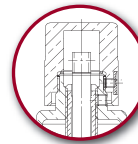
s = non-gastight
version
of spring
housing



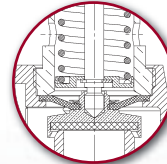
t = gastight
version



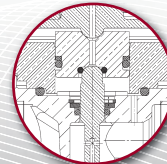
b = with
bellows



tb = gastight
with
bellows



m = with
diaphragm



K = only with
piston*

*only applies for pressure reducers.

Medium

851 tb **GFO** – 20 – m/f – 20/32 PTFE

Cold. Heat. High pressure. Aggressive fluids, gases and vapours.

Goetze manufactures high performance safety valves for all media, which are under pressure: All kinds of liquids, air gases and vapours.

The ever-increasing working pressures have a great influence on the technical requirements of safety valves – the wide product range of Goetze offers flexible and tailor-made solutions in top quality.

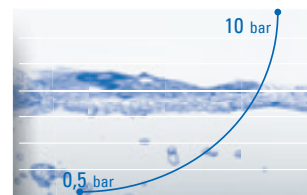
- G = for gaseous media
- F = for liquid media
- GF = for gaseous and liquid media
- HF = for heating and liquid media
- HI = for heating (international)
- HN = for heating (national for Germany)
- WI = for water heaters (international)
- WN = for water heaters (national for Germany)
- S = for solar heating plants



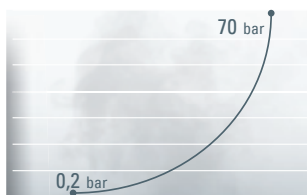
Liquids
> -270–400 °C



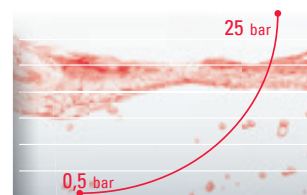
Warm water
up to 95 °C



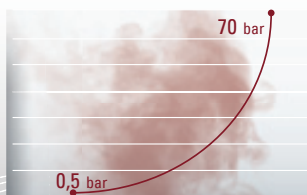
Air, gases and
vapours
> -270–400 °C



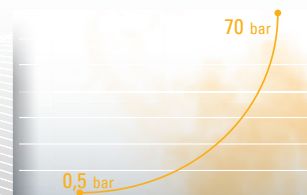
Hot water
up to 120 °C



Steam
> 120–400 °C

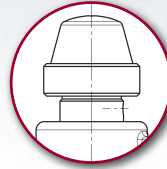
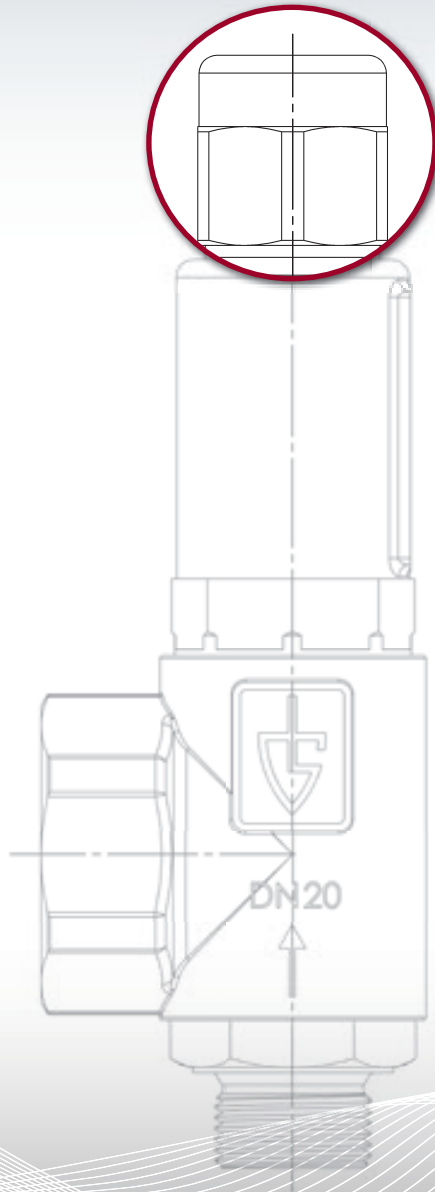


Solar plants
up to 160 °C

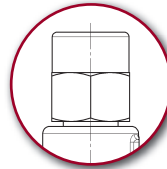


Type of lifting mechanism

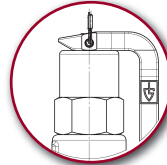
851 tbGF **O** – 20 – m/f – 20/32 PTFE



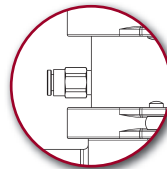
K = with twist-type lifting mechanism



O = without lifting device



L = with lifting lever

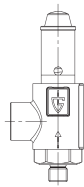
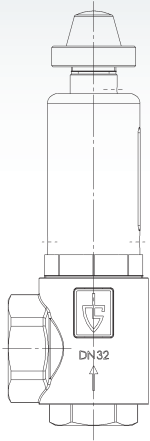


P = pneumatic lifting device

Nominal valve size

851 tbGFO – **20** – m/f – 20/32 PTFE

DN 32 : DN 8

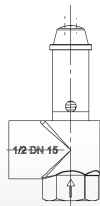
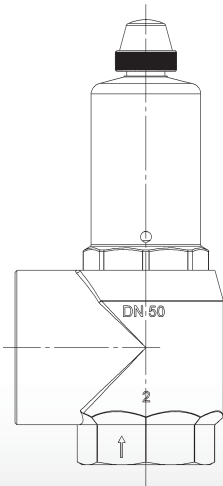


Nominal valve size

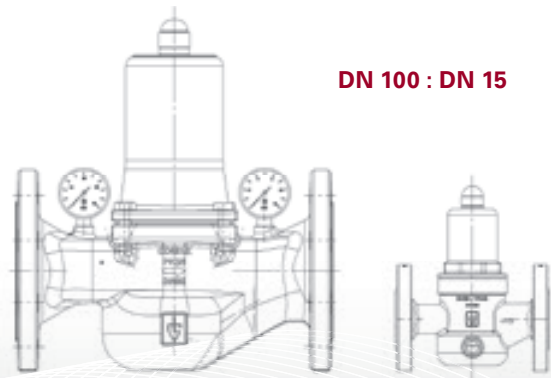
The nominal valve size is always proportional to the narrowest cross-section of flow d_0 of a specific valve size. The connection sizes of the valve are indicated elsewhere under size of inlet and outlet (see pages 14/15).

Nominal diameter DN	8	10	15	20	25
	32	40	50	65	80
	100				

DN 50 : DN 15

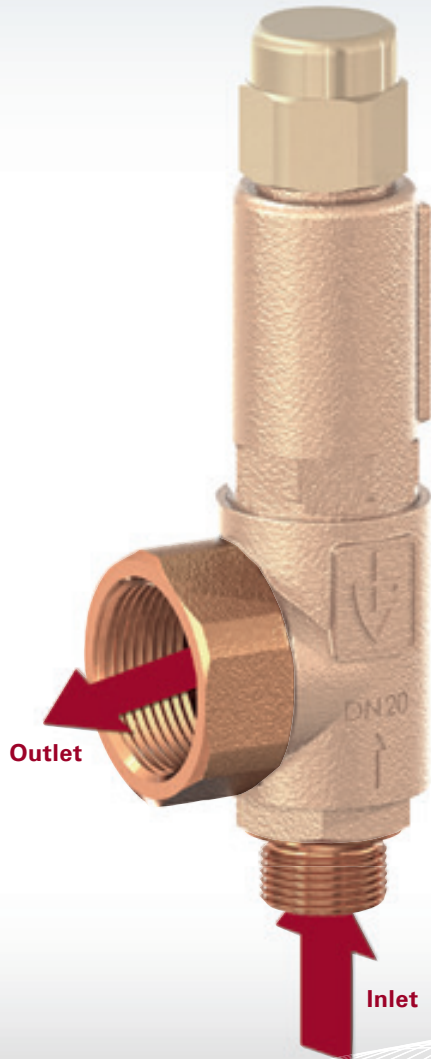


DN 100 : DN 15



Type of inlet/type of outlet

851 tbGFO – 20 – **m/f** – 20/32 PTFE



Type of inlet

851 tbGFO – 20 – **m/f** – 20/32 PTFE

m	=	male connection BSP-P (threaded pipe connection; inch)
f	=	female connection BSP-P (threaded pipe connection; inch)
FL	=	casted flange connection
FLDIN	=	loose flange DIN
FLANSI	=	loose flange ANSI
KLSASME	=	clamp connection ASME
KLSDIN	=	clamp connection DIN
KLSISO	=	clamp connection ISO
KSDIN	=	liner welding DIN (dairy coupling screw joint)
KSISO	=	liner welding ISO (dairy coupling screw joint)
GSDIN	=	thread ferule male DIN
GSISO	=	thread ferule male ISO
NPTm	=	threaded male connection NPT
NPTf	=	threaded female connection NPT
BSP-Tf	=	threaded female connection BSP-T
BSP-Tm	=	threaded male connection BSP-T
METm	=	metric male connection
METf	=	metric female connection

Type of outlet

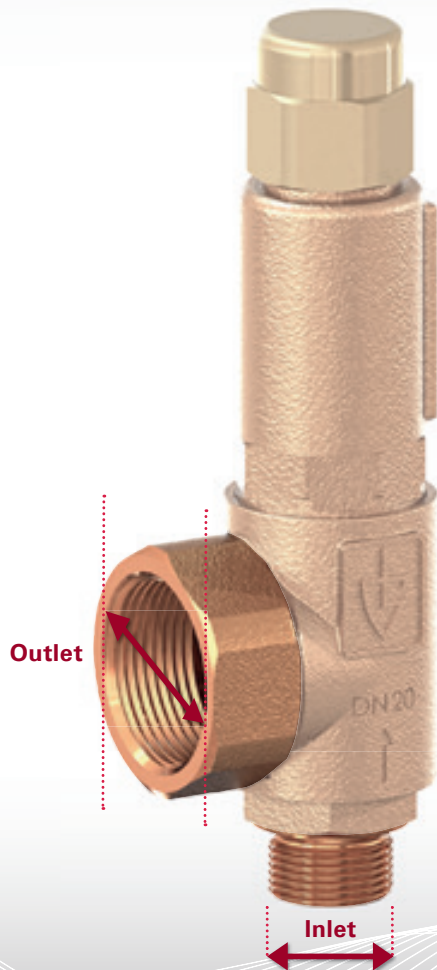
851 tbGFO – 20 – **m/f** – 20/32 PTFE

m	=	male connection BSP-P (threaded pipe connection; inch)
f	=	female connection BSP-P (threaded pipe connection; inch)
FL	=	casted flange connection
FLDIN	=	loose flange DIN
FLANSI	=	loose flange ANSI
KLSASME	=	clamp connection ASME
KLSDIN	=	clamp connection DIN
KLSISO	=	clamp connection ISO
KSDIN	=	liner welding DIN (dairy coupling screw joint)
KSISO	=	liner welding ISO (dairy coupling screw joint)
GSDIN	=	thread ferule male DIN
GSISO	=	thread ferule male ISO
NPTm	=	threaded male connection NPT
NPTf	=	threaded female connection NPT
BSP-Tf	=	threaded female connection BSP-T
BSP-Tm	=	threaded male connection BSP-T
METm	=	metric male connection
METf	=	metric female connection

Further illustrations of the individual connections can be found in our technical product catalogue.

Size of inlet/size of outlet

851 tbGFO – 20 – m/f – **20/32** PTFE



Size of inlet

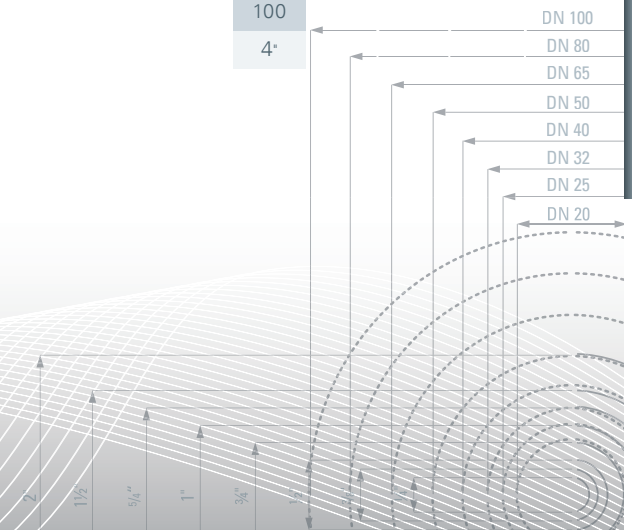
851 tbGFO – 20 – m/f – **20/32** PTFE

Nominal diameter DN	8	10	15	20	25
Analogue in inch	¼"	⅜"	½"	¾"	1"
	32	40	50	65	80
	⅝"	1 ½"	2"	2 ½"	3"
	100				
	4"				

Size of outlet

851 tbGFO – 20 – m/f – **20/32** PTFE

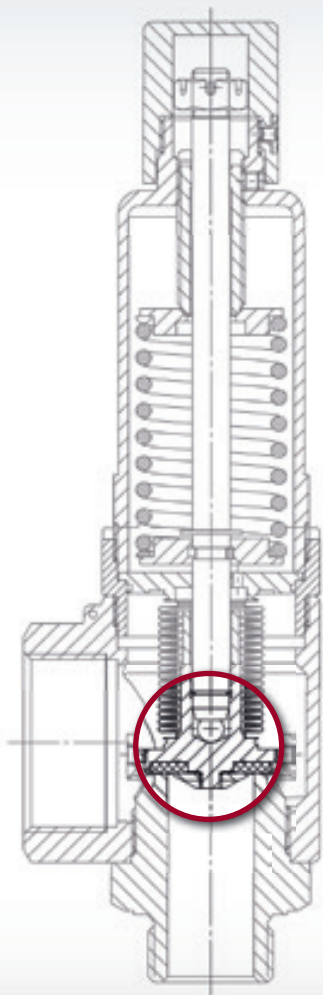
Nominal diameter DN	8	10	15	20	25
Analogue in inch	¼"	⅜"	½"	¾"	1"
	32	40	50	65	80
	⅝"	1 ½"	2"	2 ½"	3"
	100				
	4"				



Size of inlet/
Size of outlet

Seal

851 tbGFO – 20 – m/f – 20/32 **PTFE**



Seal

851 tbGFO – 20 – m/f – 20/32 **PTFE**

Flat seal

NBR = nitrile butadiene rubber

FKM = fluorcarbon rubber

PTFE = polytetrafluoroethylene

PTFE+Kohle = polytetrafluoroethylene
– carbonfibre reinforced

EPDM = ethylene-propylene-diene-monomer
peroxide cross-linked

MD = metal-to-metal seal

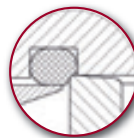
Elastomere moulded seal with metallic sealing

NBR = nitrile butadiene rubber

FKM = fluorcarbon rubber

EPDM = ethylene-propylene-diene-monomer
peroxide cross-linked

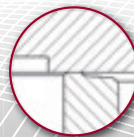
FFKM = perfluorinated rubber



elastomere moulded seals
with metallic sealing



flat seal



metal-to-metal seal

New naming of series

851 tbGFO – 20 – m/f – 20/32 PTFE

This is how you will find the valve description you are used to:

On the following pages, you will find a comparison table of the old and new type descriptions. The new article codes will help you to place an order more quickly and easier. We remain at your disposal for any further questions or queries, just give us a call on: +49(0)7141.48894-60

■ TÜV/CE angle-type safety valves for industrial applications

Old description	New description
Series Version	Series Version
451/851 bG - 1/2"	451/851 bGK - 15-f/f-15/25 EPDM
451/851 bF - 1/2"	451/851 bFK - 15-f/f-15/25 NBR
451/851 bGF - 1/2"	451/851 bGFK - 15-f/f-15/25 EPDM
451/851 tG - 1/2"	451/851 tGO - 15-f/f-15/25 EPDM
451/851 tF - 1/2"	451/851 tFO - 15-f/f-15/25 NBR
451/851 tGF - 1/2"	451/851 tGFO - 15-f/f-15/25 EPDM
451/851 tbG - 1/2"	451/851 tbGO - 15-f/f-15/25 EPDM
451/851 tbF - 1/2"	451/851 tbFO - 15-f/f-15/25 NBR
451/851 tbGF - 1/2"	451/851 tbGFO - 15-f/f-15/25 EPDM
652 - 1/2"	652 mFK - 15-f/f-15/15 NBR
652 GL - 1/2"	652 mFK - 15-f/f-15/15 EPDM
860 - 1/2"	652 sGK - 15-f/f-15/15 NBR
352/452/852 F - DN40	352/452/852 sFO - 40-FL/FL-40/65 NBR
352/452/852 bF - DN40	352/452/852 bFO - 40-FL/FL-40/65 NBR

■ TÜV/CE angle-type safety valves for industrial applications

Old description	New description
Series Version	Series Version
352/452/852 tF - DN40	352/452/852 tFO - 40-FL/FL-40/65 NBR
352/452/852 tbF - DN40	352/452/852 tbFO - 40-FL/FL-40/65 NBR
352/452/852 FL - DN40	352/452/852 sFL - 40-FL/FL-40/65 NBR
352/452/852 bFL - DN40	352/452/852 bFL - 40-FL/FL-40/65 NBR
352/452/852 tFL - DN40	352/452/852 tFL - 40-FL/FL-40/65 NBR
352/452/852 tbFL - DN40	352/452/852 tbFL - 40-FL/FL-40/65 NBR
352/452/852 G - DN40	352/452/852 sGO - 40-FL/FL-40/65 EPDM
352/452/852 bG - DN40	352/452/852 bGO - 40-FL/FL-40/65 EPDM
352/452/852 tG - DN40	352/452/852 tGO - 40-FL/FL-40/65 EPDM
352/452/852 tbG - DN40	352/452/852 tbGO - 40-FL/FL-40/65 EPDM
352/452/852 GL - DN40	352/452/852 sGL - 40-FL/FL-40/65 EPDM
352/452/852 bGL - DN40	352/452/852 bGL - 40-FL/FL-40/65 EPDM
352/452/852 tGL - DN40	352/452/852 tGL - 40-FL/FL-40/65 EPDM
352/452/852 tbGL - DN40	352/452/852 tbGL - 40-FL/FL-40/65 EPDM
352/452/852 GF - DN40	352/452/852 sGFO - 40-FL/FL-40/65 EPDM
352/452/852 bGF - DN40	352/452/852 bGFO - 40-FL/FL-40/65 EPDM
352/452/852 tGF - DN40	352/452/852 tGFO - 40-FL/FL-40/65 EPDM
352/452/852 tbGF - DN40	352/452/852 tbGFO - 40-FL/FL-40/65 EPDM
352/452/852 GFL - DN40	352/452/852 sGFL - 40-FL/FL-40/65 EPDM
352/452/852 bGFL - DN40	352/452/852 bGFL - 40-FL/FL-40/65 EPDM
352/452/852 tGFL - DN40	352/452/852 tGFL - 40-FL/FL-40/65 EPDM
352/452/852 tbGFL - DN40	352/452/852 tbGFL - 40-FL/FL-40/65 EPDM

New naming of series

851 tbGFO – 20 – m/f – 20/32 PTFE

■ TÜV/CE safety valves with atmospheric discharge

Old description	New description
Series Version	Series Version
810/410 - 3/4"	810/410 sGK - 20-m-20 NBR
812/412 - 3/4"	812/412 sGK - 20-m-20 NBR
812/412 V - 3/4"	812/412 sGK - 20-m-20 FKM
812/412 T - 3/4"	812/412 sGK - 20-m-20 PTFE
813/413 P - 3/4"	813/413 mGK - 20-m-20 NBR
813/413 V - 3/4"	813/413 mGK - 20-m-20 FKM
813/413 T - 3/4"	813/413 mGK - 20-m-20 PTFE

■ Pressure relief valves

Old description	New description
Series Version	Series Version
418 E - 1"	418 tGFO - 25-f/f-25/25 EPDM
418 P - 1"	418 tGFO - 25-f/f-25/25 NBR
418 T - 1"	418 tGFO - 25-f/f-25/25 PTFE
418 V - 1"	418 tGFO - 25-f/f-25/25 FKM
604 T - 1"	618 sGFO - 25-f/f-25/25 PTFE
605 E - 1"	618 sGFO - 25-f/f-25/25 NBR
615 T - 1"	618 sGFL - 25-f/f-25/25 PTFE
616 E - 1"	618 sGFL - 25-f/f-25/25 NBR
618 T - 1"	618 tGFO - 25-f/f-25/25 PTFE
619 E - 1"	618 tGFO - 25-f/f-25/25 NBR
601 T - 1"	601 sGFO - 25-f/f-25/25 PTFE
602 E - 1"	601 sGFO - 25-f/f-25/25 NBR
612 T - 1"	612 sGFO - 25-f/f-25/25 PTFE
613 E - 1"	612 sGFO - 25-f/f-25/25 NBR

■ Overflow and pressure control valves

Old description	New description
Series Version	Series Version
610 - 3/4"	630 mGFO - 20-m/m-20/20 EPDM
610 Edelstahl - 3/4"	430 mGFO - 20-m/m-20/20 EPDM
611 - DN65	631 mGFO - 65-FL/FL-65/65 EPDM
611 Edelstahl - DN 65	431 mGFO - 65-FL/FL-65/65 EPDM
851/451 bGFÜ - 3/4	853/453 bGFO - 20-f/f-20/32 EPDM
617 - 3/4"	617 tGFO - 20-f/f-20/20 NBR
417 - 3/4"	417 tGFO - 20-f/f-20/20 NBR
418 E - 1"	418 tGFO - 25-f/f-25/25 EPDM
418 P - 1"	418 tGFO - 25-f/f-25/25 NBR
418 T - 1"	418 tGFO - 25-f/f-25/25 PTFE
418 V - 1"	418 tGFO - 25-f/f-25/25 FKM
618 T - 1"	618 tGFO - 25-f/f-25/25 PTFE
619 E - 1"	618 tGFO - 25-f/f-25/25 NBR
608 T - 3/8"	608 tGFO - 10-f/f-10/10 PTFE
609 E - 3/8"	608 tGFO - 10-f/f-10/10 NBR

New naming of series

851 tbGFO – 20 – m/f – 20/32 PTFE

■ Pressure reducing valves

Old description	New description
Series Version	Series Version
681/481 - 3/4"	681/481 mGFO-SP -20-BSP-Tm/BSP-Tm-20/20 EPDM
681/481 HP - 3/4"	681/481 mGFO-HP -20-BSP-Tm/BSP-Tm-20/20 EPDM
681/481 LP - 3/4"	681/481 mGFO-LP -20-BSP-Tm/BSP-Tm-20/20 EPDM
682/482 - DN 80	682/482 mGFO-SP - FL/FL-80/80 EPDM
682/482 HP - DN 80	682/482 mGFO-HP - FL/FL-80/80 EPDM
682/482 LP - DN 80	682/482 mGFO-LP - FL/FL-80/80 EPDM
683 - 1"	683 mGFO

■ TÜV/CE safety valves for heating and cooling

Old description	New description
Series Version	Series Version
651 HN - 3/4"	651 mHNC - 20-f/f-20/25 EPDM
651 H - 3/4"	651 mHIK - 20-f/f-20/20 EPDM
851/451 H4 - 1"	851/451 bHK - 25-f/f-25/40 EPDM
851/451 H4L - 1"	851/451 bHL - 25-f/f-25/40 EPDM
851/451 bHF - 1"	851/451 bHFK - 25-f/f-25/40 EPDM
851/451 bHFL - 1"	851/451 bHFL - 25-f/f-25/40 EPDM
352/452/852 H4L - DN50	352/452/852 bHL - 50-FL/FL-50/80 EPDM
652 GL - 1/2"	652 mFK - 15-f/f-15/15 EPDM

■ TÜV/CE safety valves for solar plants and district heating

Old description	New description
Series Version	Series Version
651 SOL - 3/4"	651 mSK - 20-f/f-20/25 EPDM
851/451 bGL - 3/4"	851/451 bGL - 20-f/f-20/32 EPDM
852/452 bGL - DN40	852/452 bGL - 40-FL/FL-40/65 EPDM

■ Safety fittings for water supply in the building technology sector

Old description	New description
Series Version	Series Version
651 - 3/4"	651 mWIK - 20-f/f-20/20 EPDM
651 N - 3/4"	651 mWNC - 20-f/f-20/25 EPDM
669 - 3/4"	669 sWK - 20-m/m-20/20
672 - 3/4"	669 pWK - 20-m/m-20/20



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