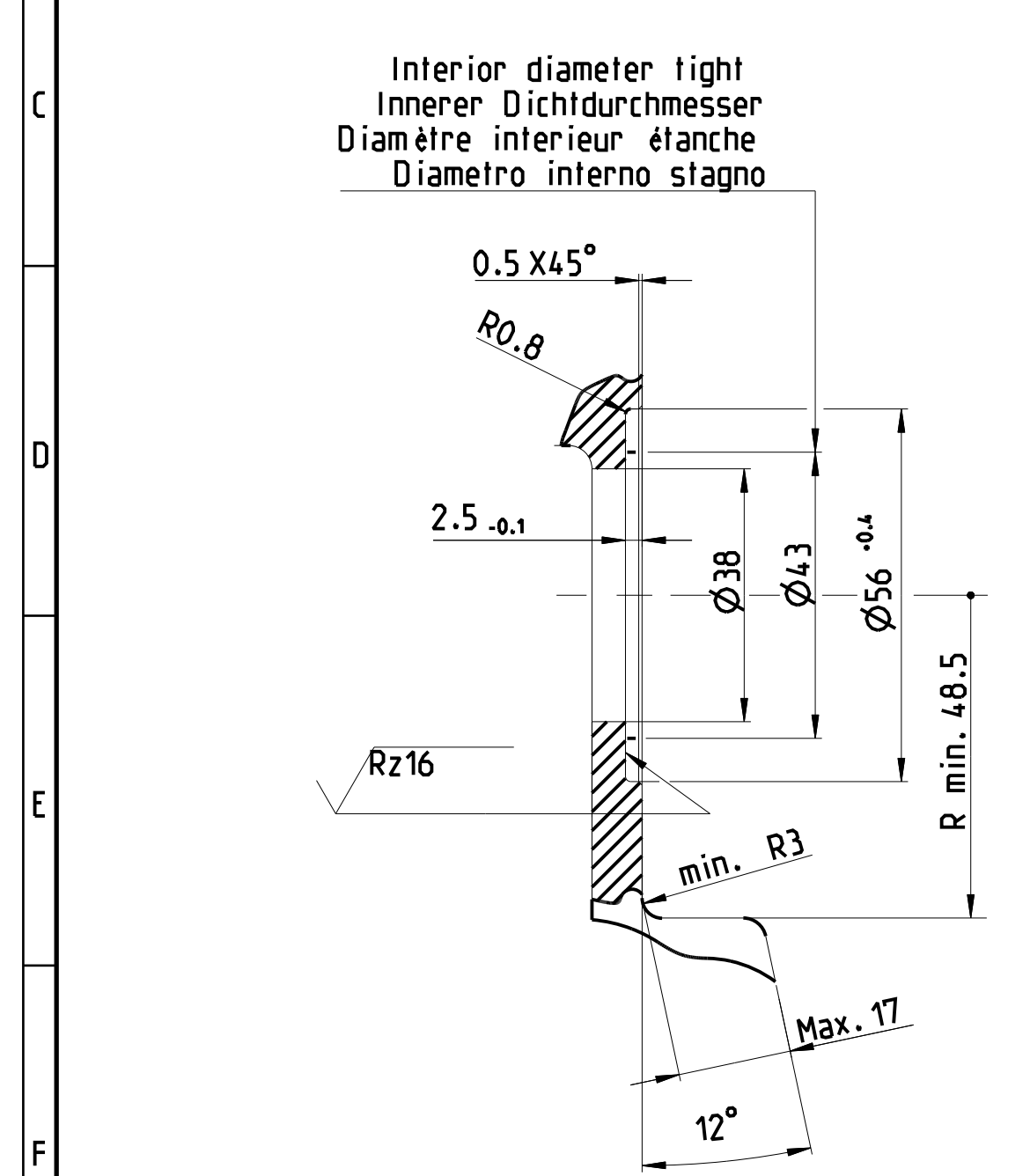
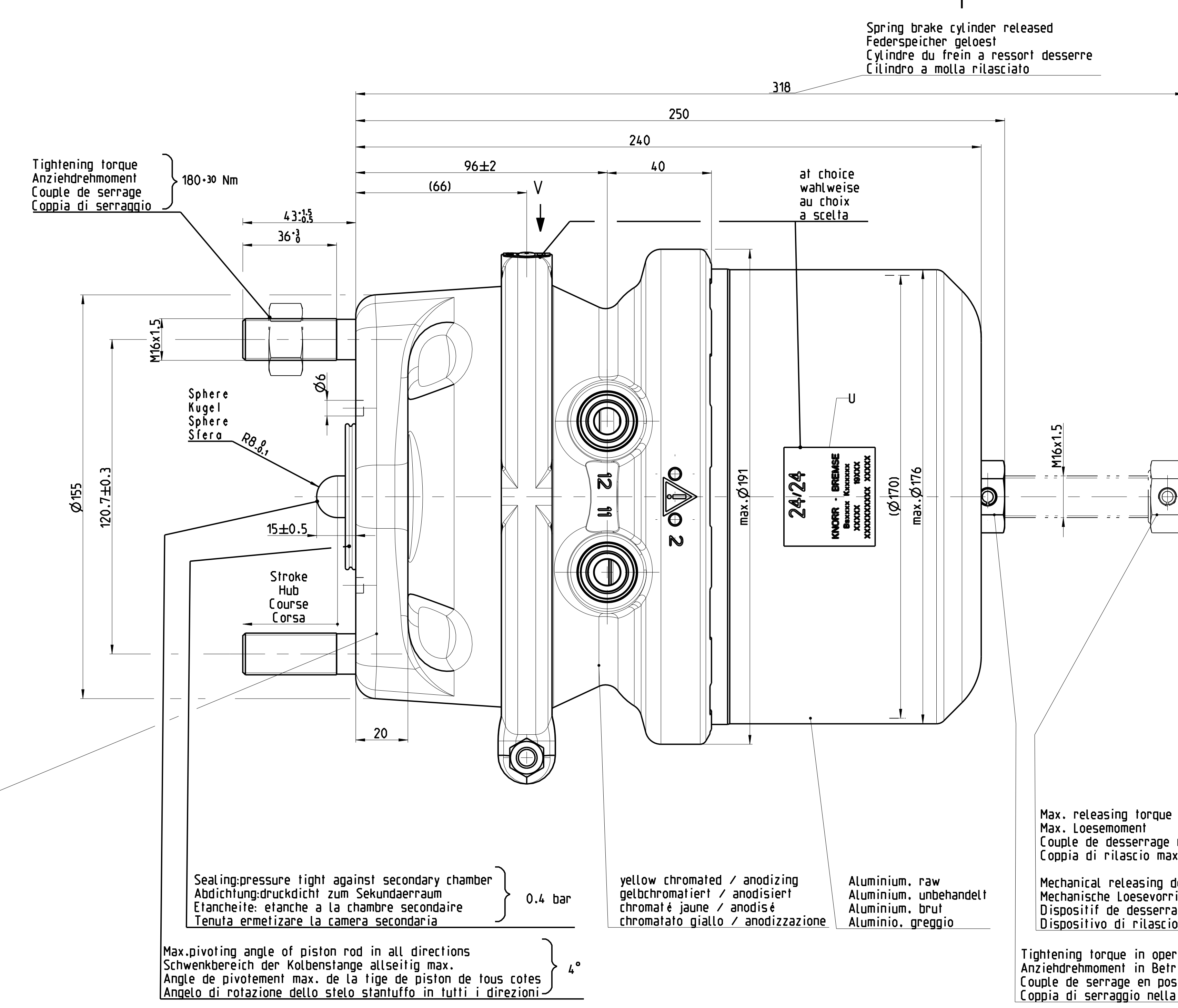


Tolerances/Tolerances/Tolleranze					
Nominal dimensions in mm Nominalemaße in mm Cotes nominales en mm Dimensioni nominali in mm					
<6 ±1	6-30 ±1.5	>30-80 ±2	>80-120 ±2.5	>120-315 ±3	>315 ±4



Installation dimension of brake caliper
Anschlssgeometrie des Bremsatzels
Bride de fixation de l'etrier de frein
Geometria della flangia sulla staffa



Spring brake cylinder released
Federpeicher gelöst
Cylindre du frein à ressort desserré
Cilindro a molla rilasciato

Tightening torque
Anziehdrehmoment
Couple de serrage
Coppia di serraggio
180-30 Nm

at choice
wahlweise
au choix
a scelta

Sphere
Kugel
Sphère
Sfera
Ø8.8

Stroke
Hub
Course
Corsa

Sealing pressure tight against secondary chamber
Abdichtung drückt dicht zum Sekundärraum
Étanchéité: étanche à la chambre secondaire
Tenuta ermetizzata la camera secondaria
0.4 bar

yellow chromated / anodizing
gelbchromatiert / anodisiert
chromaté jaune / anodisé
chromatato giallo / anodizzazione

Aluminium, raw
Aluminium, unbehandelt
Aluminium, brut
Alluminio, greggio

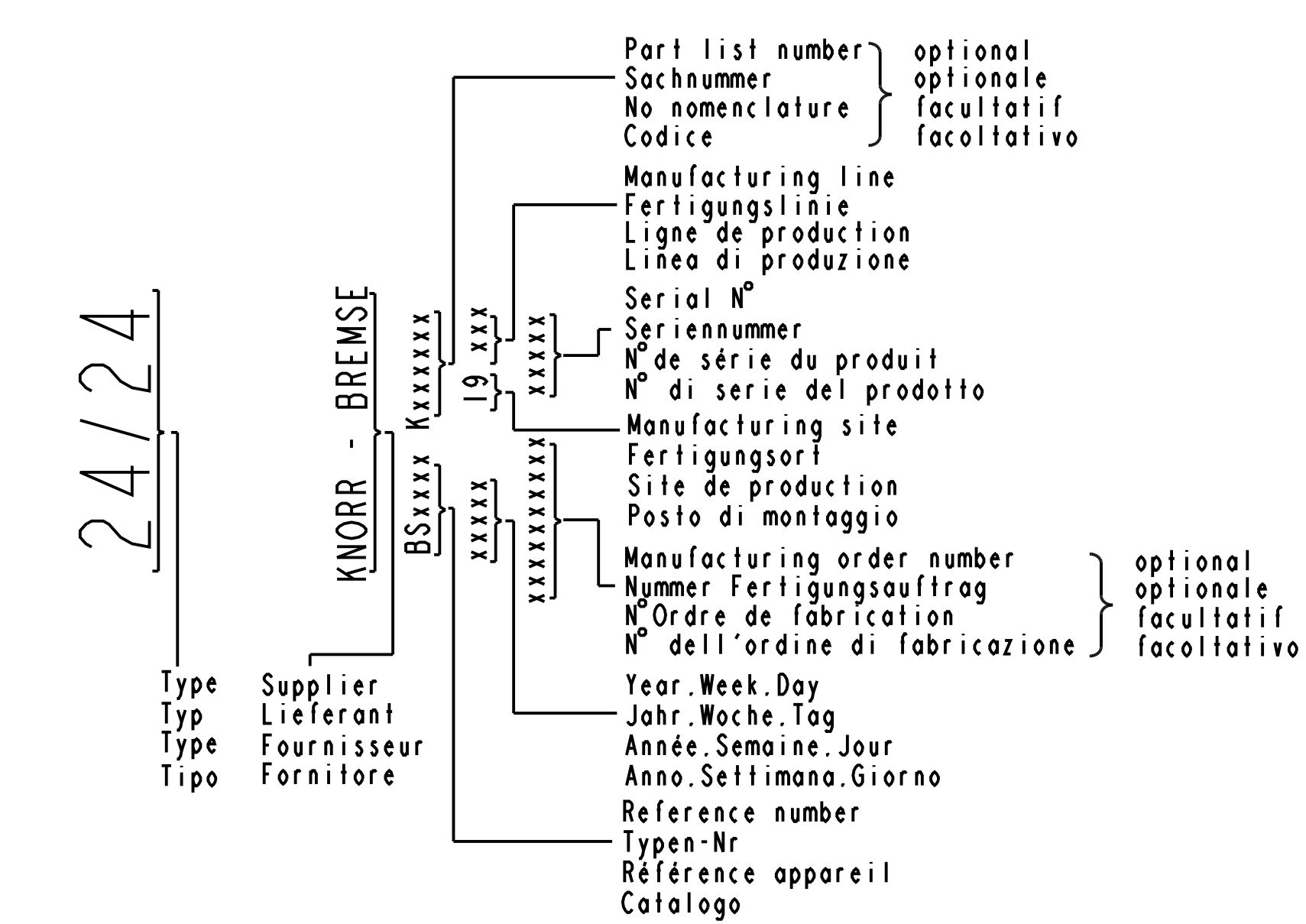
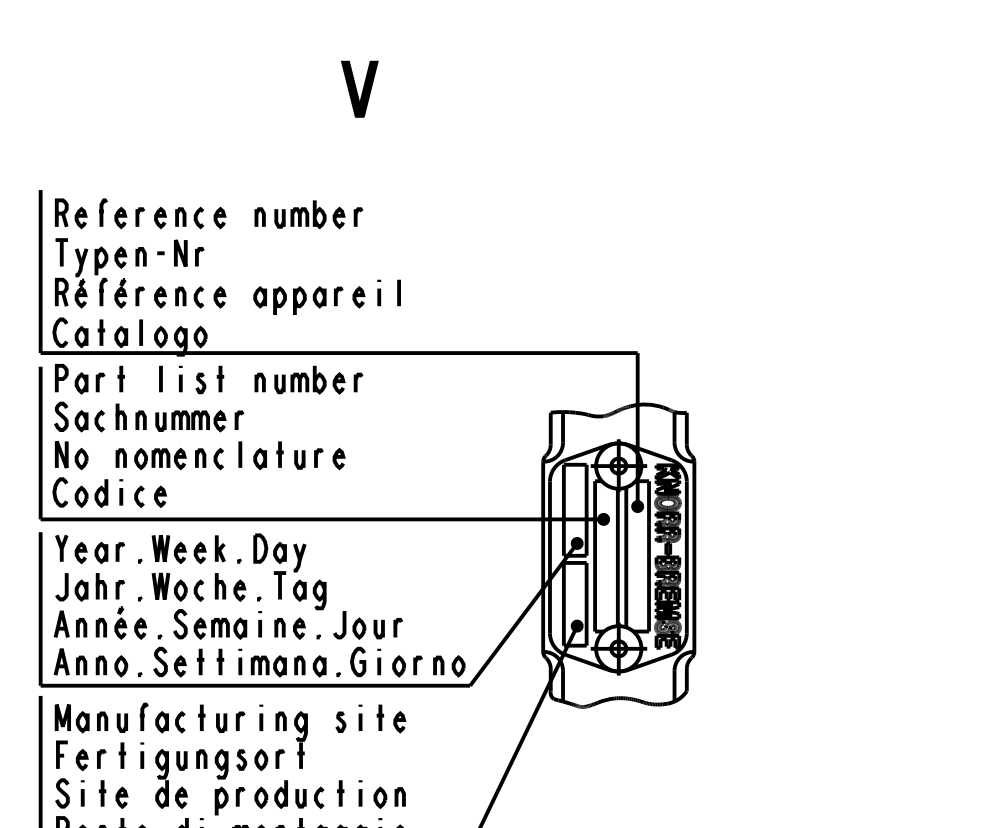
Max. releasing torque
Max. Loesemoment
Couple de desserrage max.
Coppia di rilascio max.
35Nm

Mechanical releasing device: Spanner width
Mechanische Loesevorrichtung: SW
Dispositif de desserrage mécanique: Cole sur plats
Dispositivo di rilascio meccanico: Chiave
24

Tightening torque in operating position
Anziehdrehmoment in Betriebsstellung
Couple de serrage en position de service
Coppia di serraggio nella posizione di servizio
20 - 70 Nm

Max. pivoting angle of piston rod in all directions
Schwenkbereich der Kolbenstange allseitig max.
Angle de pivotement max. de la tige de piston de tous cotés
Angolo di rotazione dello stelo stantuffo in tutti i direzioni
4°

At choice:
Non pressure plate powder - coated
except the studs phosphated, preserved
or
Non pressure plate Zinc
Wahlweise:
Zylindendeckel pulverbeschichtet mit Ausnahme der Stehbolzen
phosphatiert konserviert
oder
Zylindendeckel Verzinkte Beschichtung
Au choix:
Corps avant enrobé de poudre
sauf les goujons phosphatés conservés
ou
Corps avant Zingué
A scelta:
Corpo anteriore rivestito con polvere
frane le viti con fosforazione conservata
o
Corpo anteriore Zincato

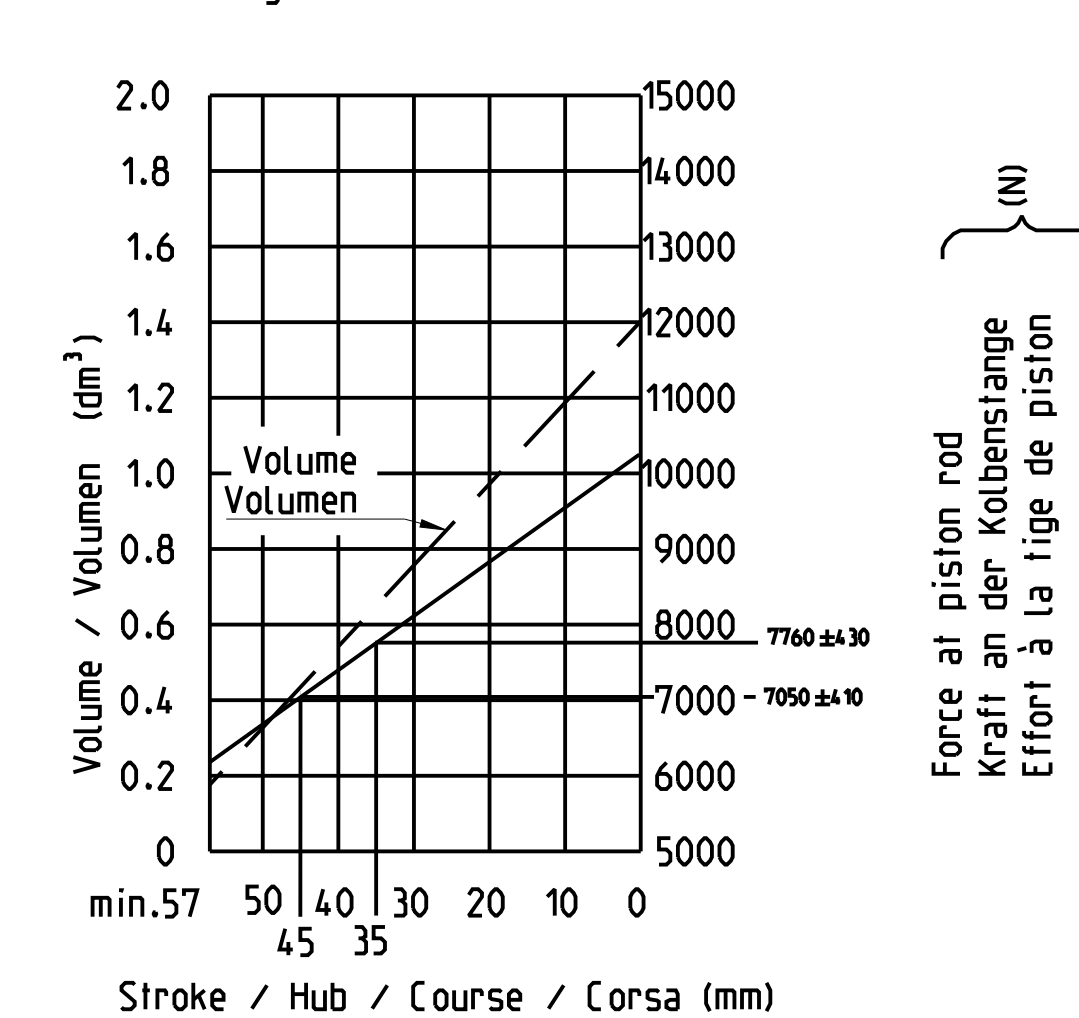
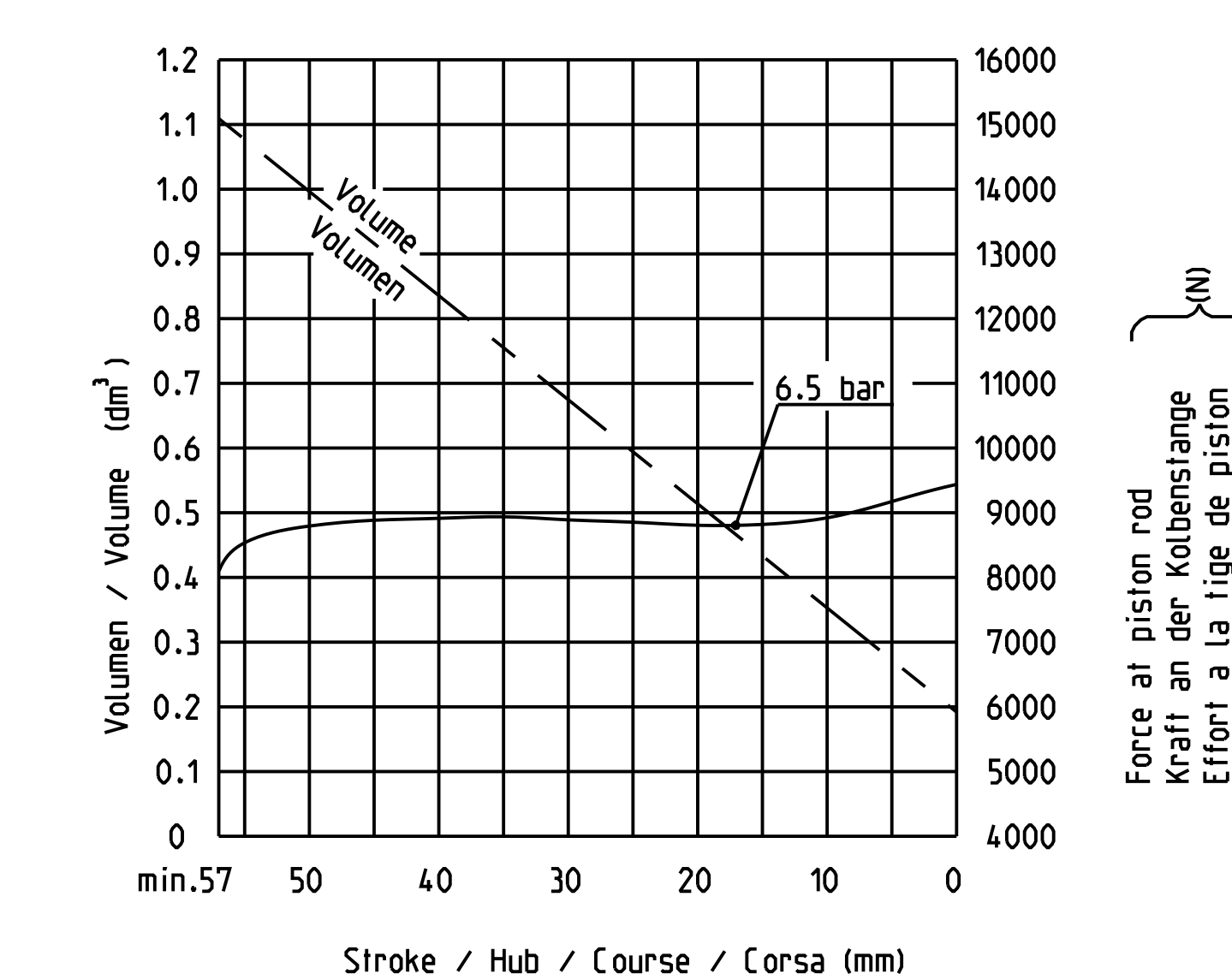


Force of return spring at stroke 20 mm
Kraftabgabe der Ruckhofeder bei Hub 20 mm
Force du ressort de rappel à une course de 20 mm
Forza della molla di ritorno a una corsa di 20 mm
F = 200 N

Diagram of service brake
Diagramm der Betriebsbremse
Diagramme du frein de service
Diagramma del freno di servizio
Type 24

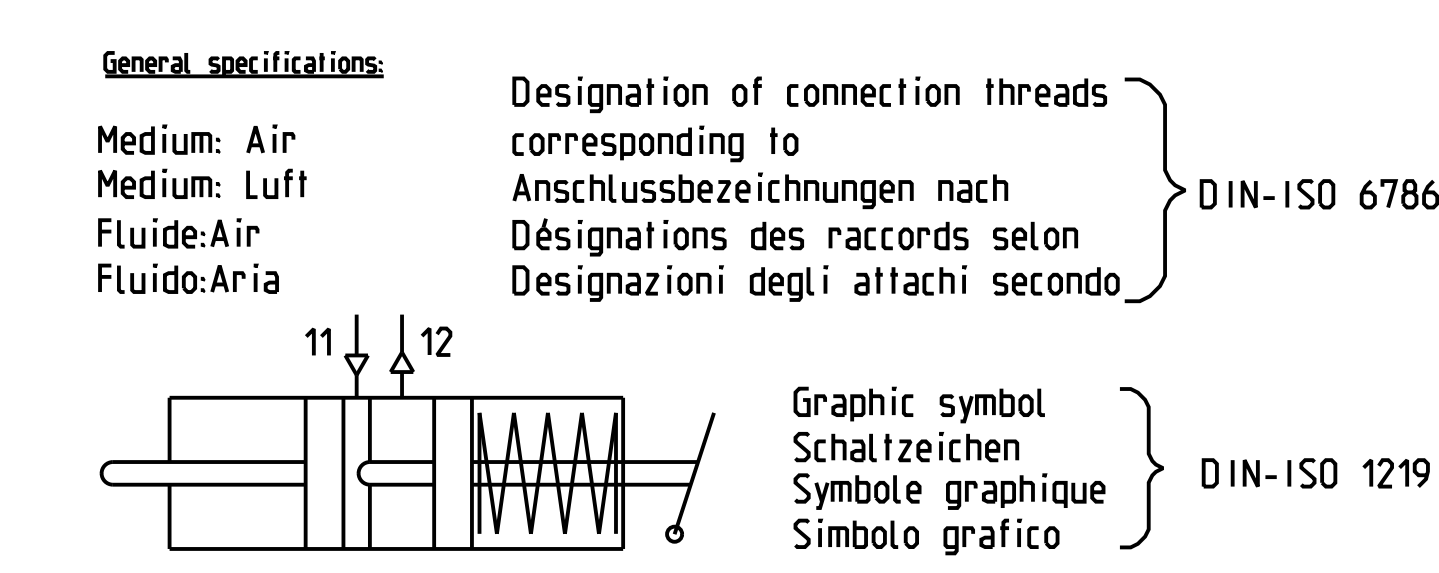
Required release pressure
Erforderlicher Loesedruck
Pression de desserrage nécessaire
Pressione di rilascio necessaria
5.1 ± 0.3 bar

Diagram of spring loaded cylinder
Diagramm des Federpeichers
Diagramme du cylindre à ressort
Diagramma del cilindro a molla
Type 24

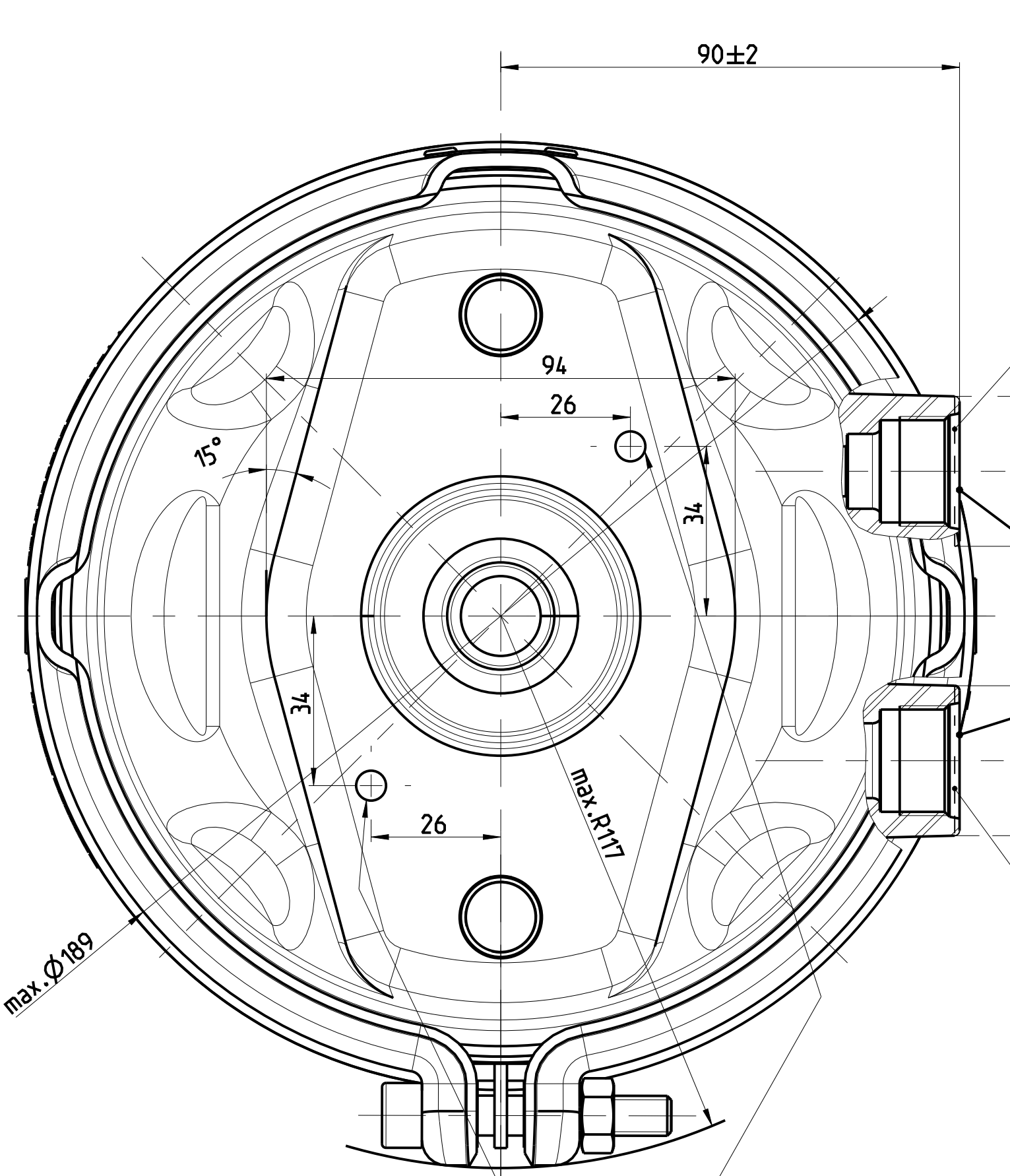


Operational uses specifications:
Max. operating pressure
Max. Betriebsdruck
Pression de service max.
Pressione d'esercizio max.
11 } 10.2 bar
Max. operating pressure
Max. Betriebsdruck
Pression de service max.
Pressione d'esercizio max.
12 } 8.5 bar
Permissible leakage
Zulaessige Undichtheit
Fuite admissible
Fuga d'aria ammissibile
v n = 10 cm³/min

Critical uses specifications without part failure:
Max. pressure
Hochsdruck
Pression max.
Pressione massima
11 } 13 bar
Max. pressure
Hochsdruck
Pression max.
Pressione massima
12 } 11 bar
Temperature range
Therm. Anwendungsbereich
Plage de température
Campo termico di applicazione
-40°C to +80°C



Specifications for service brake actuation in parking position:
Minimum pressure
Minimum Druck
Pression minimale
Pressione minima
11 } 2 bar
Pressure rising min.
Druckgradient min.
Montée en pression min.
Aumento della pressione min.
11 } 3 bar/s



General presentation, exact orientation
of the components, see below.
- Allgemeine Darstellung, fuer genaue
Teilerorientierung, siehe Ansicht unten.
- Présentation générale, orientation exacte
des pièces, voir vue en bas.
- Presentazione generale. Per l'orientazione
corretta dei pezzi, vedere il disegno sotto.

Spring-loaded cylinder
Federpeicherzylinder
Cylindre à ressort
Cilindro a molla

Tightening torque for VOSS connector 230 and VOSS 232
Anziehdrehmoment fuer VOSS Stecksystem 230 und VOSS 232
Couple de serrage pour raccord VOSS 230 et VOSS 232
Coppia di serraggio per raccordo VOSS 230 e VOSS 232
14 Nm

Tightening torque for plug connector M22x1.5
Anziehdrehmoment fuer Steckverbindung M22x1.5
Couple de serrage pour raccord M22x1.5
Coppia di serraggio per raccordo M22x1.2
max. 60 Nm

Ports for plug connector
Anschlüsse fuer Steckverbindung
Orifices pour raccord rapide
Orifici per raccordo rapido
M22x1.5 N10164 - NG12

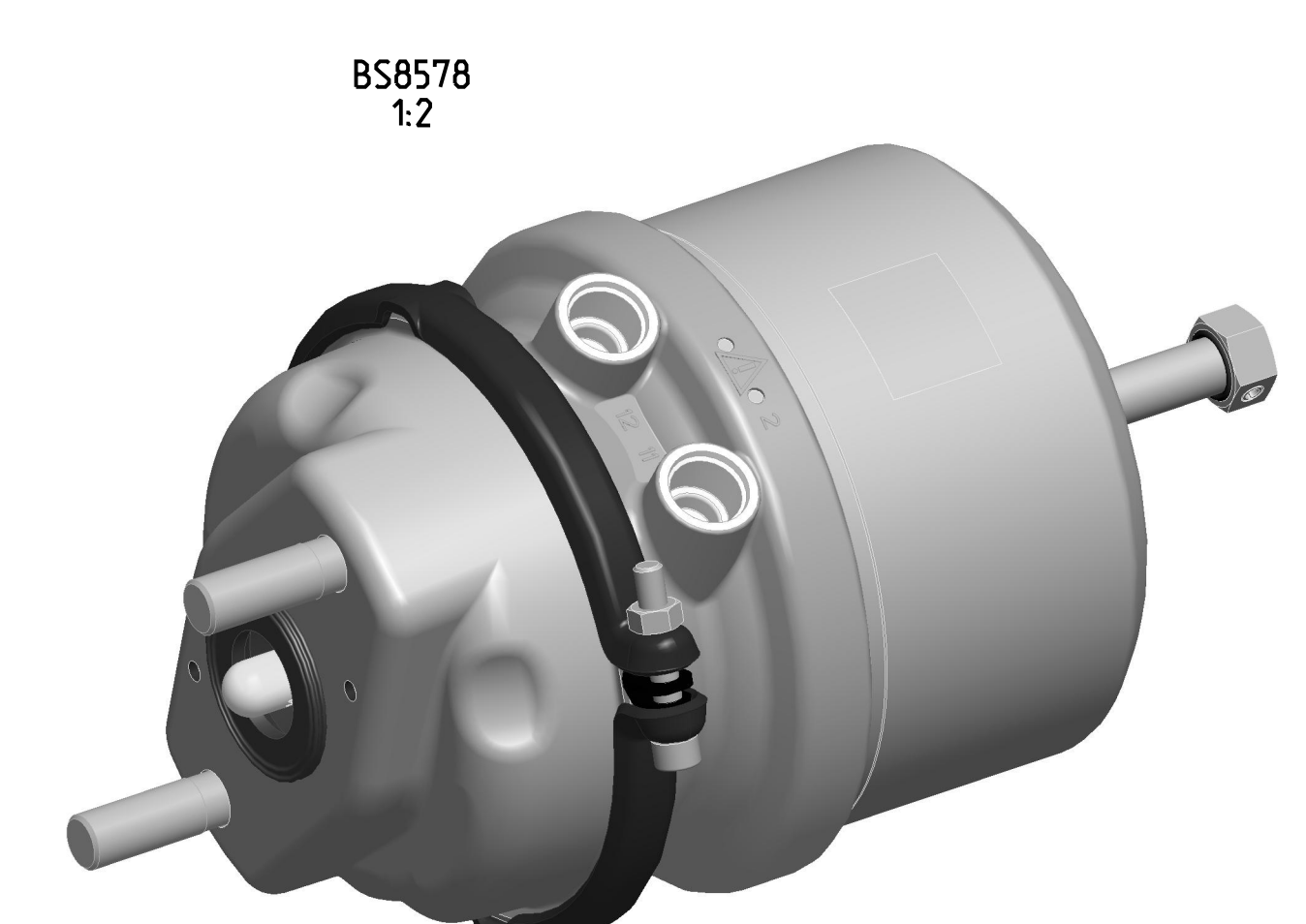
Service brake
Betriebsbremse
Frein de service
Freno di servizio

Charging and venting of spring portion via
connection 11
Be- und Entlueftung des
Federraumes ueber
Anschluss 11
Alimentation et mise a
l'atmosphère de la
chambre à ressort par
le raccord 11
Alimentazione ed
evacuazione della
attraverso attacco 11

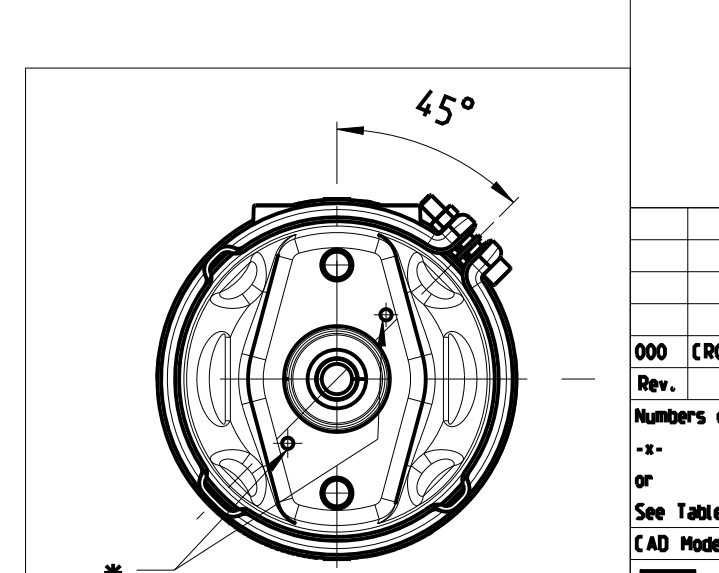
Max. releasing torque
Max. Loesemoment
Couple de desserrage max.
Coppia di rilascio max.
35Nm

Mechanical releasing device: Spanner width
Mechanische Loesevorrichtung: SW
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Tightening torque in operating position
Anziehdrehmoment in Betriebsstellung
Couple de serrage en position de service
Coppia di serraggio nella posizione di servizio
20 - 70 Nm



Exhaust hole must be directed
downwards when mounted
- Entlueftung muss im eingebauten
Zustand nach unten zeigen
- L'orifice d'échappement doit être
dirigé vers le bas en état monté
- Installato il foro di scarico dovrà
essere rivolto verso il basso



BS8578 - K05913BN00	0501 329 050	7.7
KB-Ref.number	ZF - ref. no.	Weight
KB-Bestell-Nr.	ZF - No.	Weight
KB-No de réf.	ZF - No. de ref.	Masse
Code KB per ordine	ZF - Codice	Massa (kg)

ISO 15080/05	Revision Reference	Date	Name	Scale
1:1	26.01.2011	50		1:1

ISO 15080/05	Revision Reference	Date	Name	Scale
1:1	26.01.2011	50		1:1

Type 24/24

BS8578	000
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