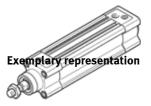
## Standards-based cylinder DSBC-...-50- Part number: 1463770 ★ Core product range





## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 2,800 mm
Piston diameter	50 mm
Piston rod thread	M16x1,5
	M10
Max. angular deflection of piston rod +/-	-0.45 0.45 deg
Based on the standard	ISO 15552
Cushioning	P: Flexible cushioning rings/plates at both ends
	PPS: Self-adjusting pneumatic end-position cushioning
	PPV: Pneumatic cushioning adjustable at both ends
Assembly position	Any
Conforms to standard	ISO 15552
Piston-rod end	Male thread
	Female thread
Design structure	Piston
	Piston rod
	Profile barrel
Position detection	For proximity sensor
Variants	For unlubricated operation
	Clamping unit attached
	End position locking at both ends
	End position locking, rear
	End-position locking, front
	Increased chemical resistance
	Bellows on bearing cap
	Hard wiper seal
	Extended male piston rod thread
	Female thread on piston rod
	Extended piston rod
	Metal wiper seal
	With protection against rotation
	Constant slow movement
	Low-friction Low-friction
	Through piston rod
	Heat resistant seals, max. 120°C
	Sensor slots on 3 profile sides
	Temperature range 0 - 150 °C
	Temperature range -40 - 80 °C
	Single-ended piston rod
	Low friction for balancer applications
Mode of operation of clamping unit	Retracting
	Advancing
	Static
	Released through compressed air
	Frictional clamping via spring force



Static holding force of clamping unit Clamping unit release pressure Journal and state and company of the compa	Feature	Value
Clamping unit release pressure  3 Dar  Mode of operation of end position locking  Positive locking by stop cylinder Released through compressed air  Static holding force of end-position locking  Lindering pressure (MPa)  Lindering pressure (MPa)  Lindering pressure (MPa)  Locking pressure (MPa)  Locking pressure (MPa)  Locking pressure MPa  Locking p	Static holding force of clamping unit	1,400 N
Sample	Axial backlash of clamping unit	0.8 mm
Mode of operation of end-position locking Released through compressed air Static holding force of end position locking 2,000 N Acadia backtash of end-position locking 1,3 mm Unlocking pressure (MPa) 2,005 MPa 1–1.5 Ibra	Clamping unit release pressure	0.3 MPa
Released through compressed air   Author   Aut		1-
Static holding force of end position tocking 1.3 mm Unitocking pressure (MPa) Unitocking to ELE-Ripoticing guideline (ATEX) Unitocking pressure (MPa) Unitocking pressure (MPa	Mode of operation of end-position locking	
Axial backlash of end position locking		- '
Unlocking pressure (MPa)  Unlocking pressure (MPa)  Locking pressure (MPa)  Locking pressure (MPa)  Operating pressure (MPa)  Operating pressure (MPa)  Ook MPa  Ook		*
Unlocking pressure		
Locking pressure (MPa)  Operating pressure MPa  Operating pressure MPa  Oo.1 1.2 MPa  Oo.1 1.2 bar  Obmode of operation  CE symbol (see declaration of conformity)  ATEX category Gas  ATEX category Dust  ATEX category Dust  Explosion ignition protection type Gas  Explosion ignition protection type Gas  Explosion ignition protection type Ust  Explosion protection repressure  Unbricated operation possibile (subsequently required for further operation)  Corrosion resistance classification CRC  2 Moderate corrosion stress  3 High corr		
Locking pressure MPa		-
Operating pressure MPa		-
Working pressure  O. 1 12 bar		
Mode of operation         double-acting           CS symbol (see declaration of conformity)         according to EUEx protection guideline (ATEX)           LCS symbol (see declaration of conformity)         To UK EX instructions           ATEX category Gust         II 20           ATEX category Dust         II 20           Explosion ignition protection type Gas         Ex h II IC T120° Cb           Explosion proof ambient temperature         20°C ← Ta ← +60°C           Explosion protection certification outside the EU         EP L Db (GB)           EP L Gb (GB)         EP L Gb (GB)           Operating medium         Compressed air in accordance with IS08573-1:2010 [7:4:4]           Note on operating and pilot medium         Lubricated operation possible Gubsequently required for further operation and protection resistance classification CRC         2 - Moderate corrosion stress           PWIS conformity         VDMA24364-81/82-1         VDMA24364-81/82-1           VDMA24364-81/82-1         VDMA24364-81/82-1         VDMA24364-81/82-1 <t< td=""><td></td><td></td></t<>		
CE symbol (see declaration of conformity)  according to EU-Ex protection guideline (ATEX)  WEX marking (see declaration of conformity)  TO UK EX instructions  IT 20  ATEX category Gas  ATEX category Dust  Explosion ingrition protection type Gas  Explosion ingrition protection type Gas  Explosion ingrition protection type Dust  Explosion ingrition protection type Dust  Explosion protection outside the EU  Explosion protection certification outside the EU  Explosion protection operating and pilot medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Corrosion resistance classification CRC  2 - Moderate corrosion stress 3 - High corrosion stress 3 - High corrosion stress  PWIS conformity  VOMA24364-B1/B2-L  VOMA24364-B1/B2		
UNCA marking (see declaration of conformity)  TO UNE XX instructions  ATEX category Dust  ATEX category Dust  ATEX category Dust  Explosion ignition protection type Gas  Exh IIIC T4 Gb  Explosion ignition protection type Bust  Explosion proof ambient temperature  20°C C = Ta C = 460°C  Explosion proof ambient temperature  Explosion protection certification outside the EU  Explosion protection protection possible (subsequently required for further operation)  Corrosion resistance classification CRC  2 - Moderate corrosion stress  3 - High corrosion stress  Wide conformity  VoMA24364-B1/B2-L  VoMA24364-B1/B2	•	
ATEX category Cass ATEX category Dust Explosion ignition protection type Gas Explosion ignition protection type Gas Explosion ignition protection type Bust Explosion or ambient temperature Explosion protection certification outside the EU Explosion protection possible (subsequently required for further operation) Corrosion resistance classification CRC  2 - Moderate corrosion stress 3 - High corrosion stress 4 - High alloy steel, non-corrosive Habitatial piston material POM Material piston rod Material piston rod wiper seal  Material piston rod wiper seal		
ATEX category Dust Explosion ignition protection type Gas Explosion ignition protection type Dust Explosion profition protection type Dust Explosion-proof ambient temperature Explosion protection certification outside the EU Explosion protection certification outside the EU  PPL Db (GB) EPL Gb (GB)  Operating medium  Note on operating and pilot medium  Uubricated operation possible (subsequently required for further operation) operation)  Corrosion resistance classification CRC  2 - Moderate corrosion stress 3 - High corrosion stress 3 - High corrosion stress  3 - High corrosion stress  3 - High corrosion stress  40150 °C  MAZ4364 B1/B2-1  VDMAZ4364 b2 ne III  Ambient temperature  40150 °C  Umbrazed ergy in end positions  0 .3 - 1 J  Cushioning length  0 22 mm  Max. torque for protection against rotation  1.5 Mm Theoretical force at 0.6 MPa (6 bar, 87 ps), retracting  990 N  Theoretical force at 0.6 MPa (6 bar, 87 ps), advance Additional weight per piston rod extension of 10 mm  12 g  Additional weight per piston rod extension of 10 mm  14 g  Mounting type  With internal (female) thread  With accessories Optional  Pheumatic connection  G1/4  Materials note  Conforms to RoHS  Camping unit housing material  Anodised wrought aluminium alloy  Material spring  Material spring  Anodised wrought aluminium alloy  Material piston meterial  PDM  Material piston rod  Material piston material  POM  Material piston rod  Material piston rod wiper seal		1.5 - 1
Explosion ignition protection type Gas Explosion ignition protection type Dust Explosion-prote ambient temperature 2-0°C (~ Ta (~ + 60°C Explosion-prote ambient temperature 2-0°C (~ Ta (~ + 60°C Explosion-protection certification outside the EU Explosion-protection passible Gubsequently required for further operation) Corrosion resistance classification CRC 2 - Moderate corrosion stress 3 - High corrosion stress  PWIS conformity VDMA24364-B1/B2-L VDM		
Explosion ignition protection type Dust Explosion-proof ambient temperature Explosion protection certification outside the EU EPL Db (GB) EPL Cb (GB) EPL Cb (GB)  Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Corrosion resistance classification CRC 2 - Moderate corrosion stress 3 - High corrosion stress PWIS conformity VDMA24364-B1/B2-L VD		
Explosion-proof ambient temperature Explosion-proof ambient temperature Explosion protection certification outside the EU EPI Db (GB) EPI Cb (Cb (GB) EPI Cb (		·
Explosion protection certification outside the EU  EPL Db (GB) EPL Cb (GB) Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium operation  Corrosion resistance classification CRC 2 - Moderate corrosion stress 3 - High corrosion stress 3 - High corrosion stress 9-WIS conformity VDMA24364 B1/B2-1 VDMA24364 B1/B2-1 VDMA24364 B1/B2-1 VDMA24364 D1/B2-1 VDMA2446 D1/B2-1 VDMA2440 D1/B2-1 VDMA2440 D1/B2-1 VDMA2440 D1/B2-1 VDMA244 D1/B2-1 VDMA244		
EPL Gb (GB)   Operating medium		
Lubricated operation possible (subsequently required for further operation)		
Lubricated operation possible (subsequently required for further operation)	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Corrosion resistance classification CRC  2 - Moderate corrosion stress 3 - High corrosion stress  9 WIS conformity  VDMA24364-81/82-1 VDMA		Lubricated operation possible (subsequently required for further
3 - High corrosion stress		operation)
PWIS conformity  Ambient temperature  Anoine t	Corrosion resistance classification CRC	2 - Moderate corrosion stress
Ambient temperature  Ambient temperature  Ambient temperature  Ad 150 °C  Impact energy in end positions  O. 3 1 J  Cushioning length  O 22 mm  Max. torque for protection against rotation  Theoretical force at 0.6 MPa (6 bar, 87 ps), retracting  Pop N  Additional weight per piston rod extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Additional weight per piston rod wiper seal  Anodised wrought aluminium  Anodised wrought aluminium alloy  Anodise		
Ambient temperature Impact energy in end positions O. 3 1 J O 22 mm  Max. torque for protection against rotation Theoretical force at 0.6 MPa (6 bar, 87 ps), retracting Pop ON Theoretical force at 0.6 MPa (6 bar, 87 ps), advance Additional weight per piston rod extension of 10 mm 25 g Additional weight per piston rod extension of 10 mm Additional weight per piston rod thread extension of 10 mm 44 g Mounting type With internal (female) thread with accessories Optional Pneumatic connection G1/4 Materials note Conforms to RoHS Material cover Material spring Spring steel High alloy steel, non-corrosive Anodised wrought aluminium alloy Material piston seal FPM HNBR TPE-U(PU)  Clamping unit piston material PoM Material piston material Material piston material Material piston rod Material piston rod Material piston rod Material piston rod wiper seal  Material piston rod wiper seal  Material piston rod wiper seal  FPM High alloy steel, non-corrosive High alloy steel, hard chrome plated High alloy steel, hard chrome plated High alloy steel, hon-corrosive  Material piston rod wiper seal FFM Material piston rod wiper seal	PWIS conformity	·
Impact energy in end positions     0.3 1 J       Cushioning length     0 22 mm       Max. torque for protection against rotation     1.5 Nm       Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting     990 N       Theoretical force at 0.6 MPa (6 bar, 87 psi), advance     990 1,178 N       Additional weight per piston rod extension of 10 mm     25 g       Additional weight per piston rod thread extension of 10 mm     14 g       Mounting type     with internal (female) thread with accessories Optional       Pneumatic connection     G1/4       Materials note     Conforms to RoHS       Material cover     Coated die-cast aluminium       Material spring     Spring steel       High alloy steel, non-corrosive       Clamping unit housing material     Anodised wrought aluminium alloy       Housing end-position locking material     Anodised wrought aluminium alloy       Material piston seal     FPM       HNBR     TPE-U(PU)       Clamping jaws clamping unit material     Brass       Clamping unit piston material     POM       Piston end-position locking material     Steel, hardened       Material piston     Wrought Aluminum alloy       High alloy steel, non-corrosive     High alloy steel, non-corrosive       Material piston rod     high-alloy stainless steel, hard chrome plated High alloy steel, High alloy steel, non-corr		
Cushioning length  Max. torque for protection against rotation  Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting  Pop 0. 1,178 N  Additional weight per piston rod extension of 10 mm  Additional weight per piston rod extension of 10 mm  Additional weight per piston rod thread extension of 10 mm  Mounting type  With internal (female) thread with accessories Optional  Pneumatic connection  G1/4  Materials note  Coated die-cast aluminium  Material spring  Spring steel High alloy steel, non-corrosive  Clamping unit housing material  Anodised wrought aluminium alloy  Material piston seal  FPM  HNBR  TPE-U(PU)  Clamping unit piston material  Brass  Clamping unit piston material  Material piston  Material piston rod  Material piston rod  Material piston rod  Material piston rod wiper seal  Material piston rod wiper seal  FPM  High alloy steel, hardened  High alloy steel, hon-corrosive  Material piston rod wiper seal  FFM  Material piston rod wiper seal  FFM  Material piston rod wiper seal		
Max. torque for protection against rotation Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting Pheoretical force at 0.6 MPa (6 bar, 87 psi), advance Additional weight per piston rod extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod wiper seal  14 g  15 M  14 g  With internal (female) thread With internal (fem	, -, ,	,
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting Theoretical force at 0.6 MPa (6 bar, 87 psi), advance Additional weight per piston rod extension of 10 mm 25 g Additional weight per piston rod thread extension of 10 mm 14 g Mounting type with internal (female) thread with accessories Optional  Pneumatic connection G1/4 Materials note Conforms to RoHS Material spring Spring steel High alloy steel, non-corrosive HOMBER HIGH-HOMBER HOMBER HO		
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance 990 1,178 N Additional weight per piston rod extension of 10 mm 25 g Additional weight per piston rod thread extension of 10 mm 14 g Mounting type with internal (female) thread with accessories Optional Pneumatic connection G1/4 Materials note Conforms to RoHS Material cover Coated die-cast aluminium Material spring Spring steel High alloy steel, non-corrosive Clamping unit housing material Anodised wrought aluminium alloy Material piston seal FPM HNBR TPE-U(PU)  Clamping unit piston material Brass Clamping unit piston material POM Piston end-position locking material Steel, hardened Material piston word steel high alloy steel, non-corrosive Material piston material Brass Clamping unit piston material Brass Clamping unit piston material Steel, hardened Material piston of wiper seal FPM HNBR TPE-U(PU)  Material piston rod wiper seal FPM High alloy steel, non-corrosive		
Additional weight per piston rod extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm Additional weight per piston rod thread extension of 10 mm At griad in the per piston rod thread extension of 10 mm At griad in the per piston rod thread extension of 10 mm At griad in the per piston rod thread extension of 10 mm At griad in the per piston rod wiper seal  Additional weight per piston rod wiper seal  At griad in thread At griad in thr		
Additional weight per piston rod thread extension of 10 mm  Mounting type  with internal (female) thread with accessories Optional  Pneumatic connection  G1/4  Materials note  Conforms to RoHS  Material cover  Coated die-cast aluminium  Material spring Spring steel High alloy steel, non-corrosive  Clamping unit housing material Anodised wrought aluminium alloy  Material piston seal FM HNBR TPE-U(PU)  Clamping unit material Brass  Clamping unit piston material Brass  Clamping unit piston material Material piston locking material Wrought Aluminum alloy  Material piston rod Might piston material Brass  Clamping unit piston material Material piston Material piston FM Material piston rod Fight alloy steel, hard chrome plated High alloy steel High alloy steel, non-corrosive  FMM		•
Mounting type  with internal (female) thread with accessories Optional  Pneumatic connection  G1/4  Materials note  Conforms to RoHS  Material cover  Material spring  Spring steel High alloy steel, non-corrosive  Clamping unit housing material  Anodised wrought aluminium alloy  Material piston seal  FPM HNBR TPE-U(PU)  Clamping unit piston material  Brass  Clamping unit piston material  Material piston locking material  Brass  Clamping unit piston material  Material piston material  POM  Piston end-position locking material  Material piston  Material piston rod  Material piston rod  Material piston rod  Material piston rod  Material piston rod wiper seal  Material piston rod wiper seal  FPM  HIBH  With internal (female) thread  with accessories Optional  Anodised wrought aluminium alloy  Housing alloy steel, hard chrome plated High alloy steel, non-corrosive  FPM  FPM		
with accessories Optional  Pneumatic connection G1/4  Materials note Conforms to RoHS  Material cover Coated die-cast aluminium  Material spring Spring steel High alloy steel, non-corrosive  Clamping unit housing material Anodised wrought aluminium alloy  Housing end-position locking material Anodised wrought aluminium alloy  Material piston seal FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material Brass  Clamping unit piston material Brass  Clamping unit piston material Brass  Clamping jaws clamping unit material Wrought Aluminum alloy  Material piston ond-position locking material Material piston with piston material Material piston Material piston rod wiper seal  FPM  Material piston rod wiper seal  FPM  FPM	5 1 1	
Pneumatic connection  Materials note  Conforms to RoHS  Material cover  Coated die-cast aluminium  Material spring  Spring steel High alloy steel, non-corrosive  Clamping unit housing material  Anodised wrought aluminium alloy  Material piston seal  FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material  Clamping unit piston material  Brass  Clamping unit piston material  POM Piston end-position locking material  Material piston  Material piston ocking material  Material piston moterial  Material piston word  Material piston word  Material piston rod  Material piston rod  Material piston rod  Material piston rod  Material piston rod wiper seal  Material piston rod wiper seal  FPM	3 71	
Materials noteConforms to RoHSMaterial coverCoated die-cast aluminiumMaterial springSpring steel High alloy steel, non-corrosiveClamping unit housing materialAnodised wrought aluminium alloyHousing end-position locking materialAnodised wrought aluminium alloyMaterial piston sealFPM HNBR TPE-U(PU)Clamping jaws clamping unit materialBrassClamping unit piston materialPOMPiston end-position locking materialSteel, hardenedMaterial pistonWrought Aluminum alloyMaterial piston rodhigh-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosiveMaterial piston rod wiper sealFPM		Optional
Material coverCoated die-cast aluminiumMaterial springSpring steel High alloy steel, non-corrosiveClamping unit housing materialAnodised wrought aluminium alloyHousing end-position locking materialAnodised wrought aluminium alloyMaterial piston sealFPM HNBR TPE-U(PU)Clamping jaws clamping unit materialBrassClamping unit piston materialPOMPiston end-position locking materialSteel, hardenedMaterial pistonWrought Aluminum alloyMaterial piston rodhigh-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosiveMaterial piston rod wiper sealFPM	Pneumatic connection	G1/4
Material spring Spring steel High alloy steel, non-corrosive  Clamping unit housing material Anodised wrought aluminium alloy  Housing end-position locking material Anodised wrought aluminium alloy  Material piston seal FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material Brass  Clamping unit piston material POM Piston end-position locking material Steel, hardened  Material piston Material piston rod wiper seal  Material piston rod wiper seal FPM	Materials note	Conforms to RoHS
High alloy steel, non-corrosive  Clamping unit housing material Anodised wrought aluminium alloy  Housing end-position locking material Anodised wrought aluminium alloy  Material piston seal FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material Brass  Clamping unit piston material POM Piston end-position locking material Steel, hardened  Material piston Wrought Aluminum alloy  Material piston rod high-alloy stainless steel, hard chrome plated High alloy steel High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal FPM	Material cover	Coated die-cast aluminium
Clamping unit housing material Anodised wrought aluminium alloy Anodised wrought aluminium alloy  Anodised wrought aluminium alloy  FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material Brass Clamping unit piston material POM Piston end-position locking material Material piston Wrought Aluminum alloy  Material piston rod high-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal  FPM	Material spring	Spring steel
Housing end-position locking material  Material piston seal  FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material  Brass  Clamping unit piston material  POM Piston end-position locking material  Material piston  Material piston  Material piston rod  Material piston rod  Material piston rod  Material piston rod  Material piston rod wiper seal  Material piston rod wiper seal  FPM		
Material piston seal  FPM HNBR TPE-U(PU)  Clamping jaws clamping unit material  Brass  Clamping unit piston material  POM Piston end-position locking material  Material piston  Material piston rod  Material piston rod wiper seal  Material piston rod wiper seal  FPM		,
HNBR TPE-U(PU)  Clamping jaws clamping unit material Brass  Clamping unit piston material POM  Piston end-position locking material Steel, hardened  Material piston Wrought Aluminum alloy  Material piston rod high-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal FPM		- '
TPE-U(PU)  Clamping jaws clamping unit material  Clamping unit piston material  POM  Piston end-position locking material  Material piston  Material piston rod  Material piston rod wiper seal  FPM	Material piston seal	
Clamping jaws clamping unit material       Brass         Clamping unit piston material       POM         Piston end-position locking material       Steel, hardened         Material piston       Wrought Aluminum alloy         Material piston rod       high-alloy stainless steel, hard chrome plated         High alloy steel       High alloy steel, non-corrosive         Material piston rod wiper seal       FPM		
Clamping unit piston material       POM         Piston end-position locking material       Steel, hardened         Material piston       Wrought Aluminum alloy         Material piston rod       high-alloy stainless steel, hard chrome plated         High alloy steel       High alloy steel, non-corrosive         Material piston rod wiper seal       FPM		
Piston end-position locking material  Material piston  Material piston rod  Material piston rod  Material piston rod  Material piston rod  Migh-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal  FPM		
Material piston       Wrought Aluminum alloy         Material piston rod       high-alloy stainless steel, hard chrome plated         High alloy steel       High alloy steel, non-corrosive         Material piston rod wiper seal       FPM		
Material piston rod high-alloy stainless steel, hard chrome plated High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal  FPM		· ·
High alloy steel High alloy steel, non-corrosive  Material piston rod wiper seal  FPM	,	· · · · · · · · · · · · · · · · · · ·
High alloy steel, non-corrosive  Material piston rod wiper seal FPM	imaterial pistori rod	
Material piston rod wiper seal FPM		
	Material piston rod wiper seal	
IHNBR	Processing a seed	HNBR



Feature	Value
	PE
	TPE-U(PU)
Buffer seal material	FPM
	TPE-U(PU)
Cushion piston material	Aluminum
	POM
Material cylinder barrel	Smooth-anodised wrought aluminium alloy
Material nut	steel, galvanized
Rod wiper seal material	Brass
	PTFE reinforced
	TPE-E
Material bearing	Bronze
	Metal polymer compound
	POM
Material of flange screw	steel, galvanized
Material bellows	NBR
	PA