Explosion Proof, Auxiliary Lever Override for Solenoid Operated Valves

RPERX3-06

Size 06 (D03) • $Q_{\text{max}}$ 60 l/min (16 GPM) • $p_{\text{max}}$ 350 bar (5100 PSI)

Technical Features

› Valve and solenoid design prevents a surface temperature capable of igniting
› Solenoid coil in acc. with directive 2014/34/EU (ATEX) for explosion-hazard zones
› Explosion protection for gas, dust and mining. Solutions for all zones
› Encapsulation enclosure solenoid version
› Auxiliary lever overrides for ON-OFF solenoid valves of the type RPEX3-06 (Datasheet No. 4054) with Size 06 and mounting interface acc. to ISO 4401, DIN 24340 (CETOP 09)
› Auxiliary lever operators allow the valve to be operated when electrical system is de-energized, e.g. emergency operation, electrical failures, maintenance activities
› Manual lever and actuation element can be rotated in 90° increments for flexible installation
› When the valve is electrically operated the hand lever remains stopped in its neutral position
› The lever override does not affect the performances of the base valve
› Coil interchangeability with all Argo-Hytos ATEX/IECEx product line
› In the standard version, the valve is zinc coated for 520 h protection acc. to ISO 9227

Technical Data

| Lever characteristics | Total stroke angle | deg | ±20
| Working stroke angle | mm (in) | ±12 to 20
| Lever override length | N (lbf) | 40 (29.5)
| Lever device weight | kg (lbs) | 0.59 (1.30)
| Weight including the lever | valve with 1 solenoid | 3.11 (6.86)
| | valve with 2 solenoids | 4.56 (10.05)

Technical data of the valve see Datasheet HA 4054, RPEX3-06.

Spool Symbols

For table Spool Symbols see Datasheet HA 4054, RPERX3-06.

Characteristics

For operating limits and pressure drop see Datasheet HA 4054, RPEX3-06.

Ordering Code

RPERX3-06

Explosion proof, 4/2 and 4/3, directional control valve, solenoid operated, with lever override

Valve size

Number of valve positions

two positions

three positions

Spool symbols

see Datasheet HA 4054 RPEX3-06

the table „Spool Symbols“

DC voltage

connection box + cable gland

12 V DC / 0.75 A | 24 V DC / 0.39 A
48 V DC / 0.19 A | 110 V DC / 0.094 A
AC voltage 50/60 Hz

fix installed cable

110 V AC / 0.112 A | 230 V AC / 0.052 A

Surface treatment

520 h salt spray test (ISO 9227)

Manual lever and position of override actuating section*

A19

standard, lever on side A, upward

B19

standard, lever on side B, upward

Seals

NBR

No designation

No designation

(only for DC)

Cable length

3

(AC and DC version) 3000 mm

8

(AC and DC version) 8000 mm

Temperature class - solenoid nominal power

A4

Class T4 - 10 W

A6

Class T6 (T5) - 10 W

B4

Class T4 - 18 W**

**Coil B4 (18 W) available only in combination with spool J15

For directional valves with two solenoids, one solenoid must be de-energized before the other solenoid can be charged.

*For valves with one solenoid: the lever is placed always between valve housing and solenoid.
The lever operator should never be used when any solenoid is energized.

Manual lever and actuating section is shown in the standard supplied position which is the most frequently used. Both elements can be rotated to various positions 90° apart.

For other positions of lever and actuating section consult our technical department for their identification.